

1.0 PROJECT BACKGROUND

The Office of Research and Development's (ORD's) National Exposure Research Laboratory (NERL) provides methods, measurements and models to assess and predict humans and ecosystems exposure to harmful pollutants through research and development. One of the tools used for measuring occurrence of waterborne bacterial and viral pathogens and indicators is the Most Probable Number (MPN) statistics. ORD developed a FORTRAN based MS-DOS Most Probable Number Calculator Software Program (MPN.exe) in the 1980s to calculate MPN values and 95% confidence limits for bacterial analyses. ORD assisted the Office of Water in the development of an Information Collection Rule (ICR) in the 1990s which required large drinking water utilities to analyze total culturable viruses in their source waters. The MPN program was modified during this time to calculate MPN estimates of concentrations of infectious virus particles. In 2009 the program was upgraded to run in a Windows environment by Avineon, Inc., 4825 Mark Center Drive, Suite 700, Alexandria, VA 22311-1846 under EPA Contract Number GS-35F-0018J, Task Order Number 1517. The new version 1.0 EPA-MPN program gave MPN values that are identical to those of Table 9221.IV in Standard Methods for the Examination of Water and Wastewater (20th Edition, American Public Health Association, Washington, D.C.), but gave different answers from the original programs under several conditions. Avineon, Inc. was tasked to correct this problem and did so by developing version 2.0 of the software.

Over the past year a number of users have upgraded to 64-bit operating systems and these users have reported that version 2.0 of the program gives them an SQL error upon installation. This presumably occurs because 64-bit operating systems require the 64-bit Microsoft SQL server while the program calls for the 32-bit server version.

2.0 PROJECT SCOPE

The scope of this project is to create a new EPA-MPN program version that will run on 64-bit computers and operating systems while maintaining the current functionality of version 2.0 of the program. The contractor shall modify, test, and supply setup.exe, the corresponding .msi installation file, and all new source code to the U.S. EPA. This will allow ORD to offer both the 32- and 64-bit versions on their web site.

The project shall not exceed 26 hours of labor.

4.0 PROJECT DELIVERABLES

The deliverables for this project:

- A setup.exe installation file that will install EPA-MPN program on 64-bit computers running 64-bit operating systems, such as Windows 7 and Windows 8, containing all the functionality of the current version 2.0.
- A "EPA-MPN-Setup.msi" installation version of the program modified for 64-bit machines as above.
- All source code for the modified version.

AWARD/CONTRACT		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)		RATING		PAGE OF PAGES 1 3	
2. CONTRACT (Proc. Inst. Ident.) NO. GS-35F-0018J/1517				3. EFFECTIVE DATE 12/23/2008		4. REQUISITION/PURCHASE REQUEST/PROJECT NO.	
5. ISSUED BY		CODE	HPOD		6. ADMINISTERED BY (If other than Item 5)		CODE
HPOD US ENVIRONMENTAL PROTECTION AGENCY HEADQUARTERS PROCUREMENT OPERATIONS ARIEL RIOS BUILDING 1200 PENNSYLVANIA AVENUE NW WASHINGTON DC 20460				HPOD US ENVIRONMENTAL PROTECTION AGENCY HEADQUARTERS PROCUREMENT OPERATIONS ARIEL RIOS BUILDING 1200 PENNSYLVANIA AVENUE NW WASHINGTON DC 20460			
7. NAME AND ADDRESS OF CONTRACTOR (No., Street, City, Country, State and ZIP Code) AVINEON INC ATTN NA 4825 MARK CENTER DR STE 700 ALEXANDRIA VA 22311				8. DELIVERY <input type="checkbox"/> FOB ORIGIN <input checked="" type="checkbox"/> OTHER (See below)			
				9. DISCOUNT FOR PROMPT PAYMENT			
				10. SUBMIT INVOICES (4 copies unless otherwise specified) TO THE ADDRESS SHOWN IN		ITEM	
CODE (b)(4)		FACILITY CODE					
11. SHIP TO/MARK FOR		CODE	RECON SHIP		12. PAYMENT WILL BE MADE BY		CODE
RECONSTRUCT SHIP TO WASHINGTON DC				RTP FINANCE CENTER US ENVIRONMENTAL PROTECTION AGENCY RTP-FINANCE CENTER MAIL DROP D143-02 109 TW ALEXANDER DRIVE DURHAM NC 27711		RTP	
13. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION: <input type="checkbox"/> 10 U.S.C. 2304 (c) () <input type="checkbox"/> 41 U.S.C. 253 (c) ()				14. ACCOUNTING AND APPROPRIATION DATA See Schedule			
15A. ITEM NO	15B. SUPPLIES/SERVICES			15C. QUANTITY	15D. UNIT	15E. UNIT PRICE	15F. AMOUNT
	Continued						
15G. TOTAL AMOUNT OF CONTRACT						\$1,244,612.13	
16. TABLE OF CONTENTS							
(X)	SEC.	DESCRIPTION	PAGE(S)	(X)	SEC.	DESCRIPTION	PAGE(S)
PART I - THE SCHEDULE				PART II - CONTRACT CLAUSES			
	A	SOLICITATION/CONTRACT FORM			I	CONTRACT CLAUSES	
	B	SUPPLIES OR SERVICES AND PRICES/COSTS		PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACH.			
	C	DESCRIPTION/SPECS./WORK STATEMENT			J	LIST OF ATTACHMENTS	
	D	PACKAGING AND MARKING		PART IV - REPRESENTATIONS AND INSTRUCTIONS			
	E	INSPECTION AND ACCEPTANCE			K	REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFERORS	
	F	DELIVERIES OR PERFORMANCE			L	INSTRS., CONDS., AND NOTICES TO OFFERORS	
	G	CONTRACT ADMINISTRATION DATA			M	EVALUATION FACTORS FOR AWARD	
	H	SPECIAL CONTRACT REQUIREMENTS					
CONTRACTING OFFICER WILL COMPLETE ITEM 17 OR 18 AS APPLICABLE							
17. <input type="checkbox"/> CONTRACTOR'S NEGOTIATED AGREEMENT (Contractor is required to sign this document and return _____ copies to issuing office.) Contractor agrees to furnish and deliver all items or perform all the services set forth or otherwise identified above and on any continuation sheets for the consideration stated herein. The rights and obligations of the parties to this contract shall be subject to and governed by the following documents: (a) this award/contract, (b) the solicitation, if any, and (c) such provisions, representations, certifications, and specifications, as are attached or incorporated by reference herein. (Attachments are listed herein.)				18. <input checked="" type="checkbox"/> AWARD (Contractor is not required to sign this document.) Your offer on Solicitation Number _____, including the additions or changes made by you which additions or changes are set forth in full above, is hereby accepted as to the items listed above and on any condition sheets. This award consummates the contract which consists of the following documents: (a) the Government's solicitation and your offer, and (b) this award/contract. No further contractual document is necessary.			
19A. NAME AND TITLE OF SIGNER (Type or print)				20A. NAME OF CONTRACTING OFFICER David Fuller			
19B. NAME OF CONTRACTOR		19C. DATE SIGNED		20B. UNITED STATES OF AMERICA		20C. DATE SIGNED	
BY (Signature of person authorized to sign)				BY (Signature of the Contracting Officer)			

CONTINUATION SHEET

 REFERENCE NO. OF DOCUMENT BEING CONTINUED
 GS-35F-0018J/1517

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NAME OF OFFEROR OR CONTRACTOR

AVINEON INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
0001	DUNS Number: (b)(4) TO 1517 Software Definition, Design, and Development (SD3) TOPO: VBRANDON Max Expire Date: 01/11/2010 Delivery Location Code: RECON SHIP RECONSTRUCT SHIP TO WASHINGTON DC USA FOB: Destination Period of Performance: 12/23/2008 to 01/11/2010 Order Ceiling and Funding for BASE Period Order Ceiling and Funding for BASE Period Accounting Info: 08-09-C-26UU000-106FHAA-2512-LSMM0000-0826UUP104-001 BFY: 08 EFY: 09 Fund: C Budget Org: 26UU000 Program (PRC): 106FHAA Budget (BOC): 2512 Job #: LSMM0000 DCN - Line ID: 0826UUP104-001 Funding Flag: Partial Funded: \$20,000.00 Accounting Info: 08-09-C-26UU000-404FB2APV-2512-LSMM0000-0826UUP104-002 BFY: 08 EFY: 09 Fund: C Budget Org: 26UU000 Program (PRC): 404FB2APV Budget (BOC): 2512 Job #: LSMM0000 DCN - Line ID: 0826UUP104-002 Funding Flag: Partial Funded: \$20,000.00 Accounting Info: 08-09-C-26UU000-404FB2APW-2512-LSMM0000-0826UUP104-003 BFY: 08 EFY: 09 Fund: C Budget Org: 26UU000 Program (PRC): 404FB2APW Budget (BOC): 2512 Job #: LSMM0000 DCN - Line ID: 0826UUP104-003 Funding Flag: Partial Funded: \$20,000.00 Accounting Info: 09-10-C-267B000-106FHAA-2512-LSMD0000-09267BC916-001 BFY: 09 EFY: 10 Fund: C Budget Org: 267B000 Program (PRC): 106FHAA Budget (BOC): 2512 Job #: LSMD0000 DCN - Line ID: 09267BC916-001 Funding Flag: Partial Funded: \$127,295.08 Accounting Info: 08-09-C-267B000-203FC1A-2512-LSMD0000-09267BC930-001 BFY: 08 EFY: 09 Fund: C Budget Org: 267B000 Program (PRC): 203FC1A Budget (BOC): 2512 Job #: LSMD0000 DCN - Line ID: 09267BC930-001 Funding Flag: Partial Funded: \$100,000.00 Continued ...				

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
GS-35F-0018J/1517

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NAME OF OFFEROR OR CONTRACTOR
AVINEON INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	The obligated amount of award: \$287,295.08. The total for this award is shown in box 15G.				

ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

1

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IMPORTANT: Mark all packages and papers with contract and/or order numbers.

1. DATE OF ORDER 01/20/2013		2. CONTRACT NO. (If any) GS-35F-0018J		6. SHIP TO: a. NAME OF CONSIGNEE NERL CINCINNATI	
3. ORDER NO. EP-G13H-00632		4. REQUISITION/REFERENCE NO. PR-ORD-13-00570			
5. ISSUING OFFICE (Address correspondence to) HPOD US Environmental Protection Agency Ariel Rios Building 1200 Pennsylvania Avenue, N. W. Mail Code: 3803R Washington DC 20460				b. STREET ADDRESS US Environmental Protection Agency National Exposure Research Lab 26 Martin Luther King Drive	
				c. CITY Cincinnati	e. ZIP CODE 45268
7. TO: a. NAME OF CONTRACTOR AVINEON, INC.				f. SHIP VIA	
b. COMPANY NAME				8. TYPE OF ORDER <input type="checkbox"/> a. PURCHASE <input checked="" type="checkbox"/> b. DELIVERY	
c. STREET ADDRESS 4825 MARK CENTER DRIVE SUITE 700				REFERENCE YOUR: Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.	
d. CITY ALEXANDRIA		e. STATE VA	f. ZIP CODE 22311846		
9. ACCOUNTING AND APPROPRIATION DATA See Schedule				10. REQUISITIONING OFFICE NERL CINCINNATI	

11. BUSINESS CLASSIFICATION (Check appropriate box(es)) <input type="checkbox"/> a. SMALL <input type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> c. DISADVANTAGED <input type="checkbox"/> d. WOMEN-OWNED <input type="checkbox"/> e. HUBZone <input type="checkbox"/> f. SERVICE-DISABLED VETERAN-OWNED <input type="checkbox"/> g. WOMEN-OWNED SMALL BUSINESS (WOSB) ELIGIBLE UNDER THE WOSB PROGRAM <input type="checkbox"/> h. EDWOSB				12. F.O.B. POINT Destination	
13. PLACE OF a. INSPECTION Destination		b. ACCEPTANCE Destination		14. GOVERNMENT B/L NO.	
				15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date) 12/31/2012	
16. DISCOUNT TERMS					

17. SCHEDULE (See reverse for Rejections)

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	DUNS Number: (b)(4) ORD's Most Probable Number Calculator (MPN) statistical tool TOPO: VBRANDON Max Expire Date: 09/30/2013 Continued ...					

SEE BILLING INSTRUCTIONS ON REVERSE	18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		17(h) TOTAL (Cont. pages)
	21. MAIL INVOICE TO:						
	a. NAME RTP Finance Center						\$3,588.00
	b. STREET ADDRESS (or P.O. Box) US Environmental Protection Agency RTP-Finance Center (D143-02) 109 TW Alexander Drive						\$3,588.00
c. CITY Durham		d. STATE NC	e. ZIP CODE 27711				17(i) GRAND TOTAL

22. UNITED STATES OF
AMERICA BY (Signature)

23. NAME (Typed)
Deborah Darry
TITLE: CONTRACTING/ORDERING OFFICER

ORDER FOR SUPPLIES OR SERVICES
SCHEDULE - CONTINUATION

PAGE NO
2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER 01/20/2013	CONTRACT NO. GS-35F-0018J	ORDER NO. EP-G13H-00632
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ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
0001	<p>Admin Office: HPOD US Environmental Protection Agency Ariel Rios Building 1200 Pennsylvania Avenue, N. W. Mail Code: 3803R Washington DC 20460</p> <p>Accounting Info: 12-13-C-26U5000-301FK8XPV-2588-26A5B-1326U5E 007-001 BFY: 12 EFY: 13 Fund: C Budget Org: 26U5000 Program (PRC): 301FK8XPV Budget (BOC): 2588 Cost: 26A5B DCN - Line ID: 1326U5E007-001 Period of Performance: 01/22/2013 to 09/30/2013</p> <p>The purpose of this order is to procure computer programming services via the GSA Federal Supply Schedule 70 for support of additional system development needed to modify ORD's Most Probable Number Calculator (MPN) statistical tool so that it will work appropriately with a 64-bit Microsoft operating system. Services are ordered on a time and materials basis and shall not exceed ceiling value as provided for herein.</p> <p>The obligated amount of award: \$3,588.00. The total for this award is</p>				3,588.00	

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$3,588.00

SOLICITATION/CONTRACT		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)		RATING		PAGE 1 OF 2 PAGES	
2. CONTRACT NO. EP08H000773		3. AWARD/ EFFECTIVE DATE 06/09/2014		4. SOLICITATION NUMBER		5. SOLICITATION TYPE <input type="checkbox"/> SEALED BIDS (IFB) <input type="checkbox"/> NEGOTIATED (RFP)	
7. ISSUED BY CODE HPOD HPOD US Environmental Protection Agency William Jefferson Clinton Building 1200 Pennsylvania Avenue, N. W. Mail Code: 3803R Washington DC 20460 NO COLLECT CALLS		8. THIS ACQUISITION IS <input checked="" type="checkbox"/> UNRESTRICTED OR <input type="checkbox"/> SET ASIDE: % FOR: <input type="checkbox"/> SMALL BUSINESS <input type="checkbox"/> WOMEN-OWNED SMALL BUSINESS (WOSB) <input type="checkbox"/> HUBZONE SMALL BUSINESS <input type="checkbox"/> EDWOSB <input type="checkbox"/> SERVICE-DISABLED VETERAN-OWNED SMALL BUSINESS NAICS: 541519 <input type="checkbox"/> 8(A) SIZE STANDARD: \$25.0		6. SOLICITATION ISSUE DATE			
9. (AGENCY USE)							
10. ITEMS TO BE PURCHASED (BRIEF DESCRIPTION) <input type="checkbox"/> SUPPLIES <input type="checkbox"/> SERVICES							
11. IF OFFER IS ACCEPTED BY THE GOVERNMENT WITHIN _____ CALENDAR DAYS (60 CALENDAR DAYS UNLESS OFFEROR INSERTS A DIFFERENT PERIOD) FROM THE DATE SET FORTH IN BLOCK 9 ABOVE, THE CONTRACTOR AGREES TO HOLD ITS OFFERED PRICES FIRM FOR THE ITEMS SOLICITED HEREIN AND TO ACCEPT ANY RESULTING CONTRACT SUBJECT TO THE TERMS AND CONDITIONS STATED HEREIN.				12. ADMINISTERED BY CODE HPOD HPOD US Environmental Protection Agency William Jefferson Clinton Building 1200 Pennsylvania Avenue, N. W. Mail Code: 3803R Washington DC 20460			
13. CONTRACTOR OFFEROR CODE (b)(4) FACILITY CODE AVINEON, INC. 4825 MARK CENTER DRIVE SUITE 700 ALEXANDRIA VA 223111846 TELEPHONE NO. DUNS NO. 782184261 <input type="checkbox"/> CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER				14. PAYMENT WILL BE MADE BY CODE As Indicated On Each Call SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK:			
15. PROMPT PAYMENT DISCOUNT As Indicated On Each Call				16. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION <input type="checkbox"/> 10 U.S.C. 2304 <input type="checkbox"/> 41 U.S.C. 253 () ()			
17. ITEM NO.	18. SCHEDULE OF SUPPLIES/SERVICES			19. QUANTITY	20. UNIT	21. UNIT PRICE	22. AMOUNT
	DUNS Number: (b)(4) Period of Performance: 02/27/2008 to 04/30/2014						
23. ACCOUNTING AND APPROPRIATION DATA As Indicated On Each Call						24. TOTAL AWARD AMOUNT (FOR GOVERNMENT USE ONLY) \$0.00	
25. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN _____ COPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET <input type="checkbox"/> FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY CONTINUATION SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED HEREIN.				26. AWARD OF CONTRACT: YOUR OFFER ON SOLICITATION NUMBER SHOWN IN BLOCK 4 INCLUDING ANY ADDITIONS <input type="checkbox"/> OR CHANGES WHICH ARE SET FORTH HEREIN, IS ACCEPTED AS TO ITEMS:			
27. SIGNATURE OF OFFEROR/CONTACTOR				28. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER)			
NAME AND TITLE OF SIGNER (TYPE OR PRINT)		DATE SIGNED		NAME OF CONTRACTING OFFICER Lin Pinskey		DATE SIGNED 07/05/2014	

NO RESPONSE FOR REASONS CHECKED

<input type="checkbox"/>	CANNOT COMPLY WITH SPECIFICATIONS	<input type="checkbox"/>	CANNOT MEET DELIVERY REQUIREMENT
<input type="checkbox"/>	UNABLE TO IDENTIFY THE ITEM(S)	<input type="checkbox"/>	DO NOT REGULARLY MANUFACTURE OR SELL THE TYPE OF ITEMS INVOLVED
<input type="checkbox"/>	OTHER (Specify)		
<input type="checkbox"/>	WE DO	<input type="checkbox"/>	WE DO NOT, DESIRE TO BE RETAINED ON THE MAILING LIST FOR FUTURE PROCUREMENT OF THE TYPE OF ITEMS INVOLVED
NAME AND ADDRESS OF FIRM (Include ZIP Code)		SIGNATURE	
		TYPE OR PRINT NAME AND TITLE OF SIGNER	

FROM:

AFFIX
STAMP
HERE

TO:

HPOD
 HPOD
 US Environmental Protection Agency
 William Jefferson Clinton Building
 1200 Pennsylvania Avenue, N. W.
 Mail Code: 3803R
 Washington DC 20460

SOLICITATION NO. _____

DATE AND LOCAL TIME _____